

MSSD

Master of Science in Sustainable Design

1 Fall 1st Year (48 units)

Pre-Requisite: (9 units)

48-315 | Environment 1: Climate & Energy (9 units)

Core: (36 units)

48-722 | Building Performance Modeling (12)

48-729 | Productivity, Health & the Quality of Buildings (12)

48-795 | LEED, Green Design and Building Rating in a Global Context (6)*

12-748 | Mechanical & Electrical System Design for Buildings (6)

Selectives: (6 - 12 units)**

Selective 1

2 Spring 1st Year (48 units)

Core: (18 units)

48-723 | Performance of Advanced Building Systems (9)

48-752 | Zero Energy House (9)

Project (12 Units)

48-731 | MSSD Synthesis Prep (12)

Selectives: (12 - 18 units)**

Selectives 2 & 3

Program Description:

The Master of Science in Sustainable Design degree program provides an integrated education that strives to prepare its graduates for careers that will reshape the built environment in a sustainable fashion. This challenging program is intended for recent graduates and practicing professionals with degrees related to the built environment including architecture, landscape architecture, ecology, engineering, construction, interior architecture/design, facilities management and others.

* LEED™ Accredited Professionals are not required to take this class. A (6) or (9) unit Selective must be substituted.

Program Requirements:

In addition to the standard requirements for all graduate students in the School of Architecture, students in the MSSD program must satisfy the following:

- Students must complete a minimum of 120 units of course work including a minimum of 21 units of Core Selectives coursework for graduation.
- Students must complete a minimum residency requirement of two (2) academic semesters.
- Full-time status (minimum 36 units per semester) is required during the residency period.
- All course substitutions must be approved by the program Track Chair.

3 Summer (24 units)

Project (24 Units)

48-732 | MSSD Synthesis (24)

** MSSD students must take at least one (1) selective from each category, with a cumulative total of 21 units.

The selective courses listed here are pre-approved as meeting the criteria for MSSD Core Selectives. Students may elect to take courses not listed here, pending approval from the MSSD Track Chair.

Be advised that changes to these curricular offerings take place regularly. Visit the University's [Schedule of Classes](#) for up-to-date information.

Core Selectives**

Category One: Environmental Economics, Tools & Calculations Project

12-712 | Introduction to Sustainable Engineering

12-714 | Environmental Life-Cycle Assessment

48-569 | GIS / CAFM

48-721 | Building Controls & Diagnostics

48-738 | Special Topics: Ecological Footprints

62-707: Variational Geometry I

Category 2: Environmental Law & Policy

48-448 | History of Sustainable Architecture

73-148 or 90-803 | Environmental Economics

79-354 | Energy & Climate: History, Science, Technology & Policy

80-244 | Environmental Ethics

90-765 | Cities, Technology & the Environment

90-768 | Energy & the Environment

90-798 | Environmental Policy & Planning

90-808 | Energy Policy

Category 3: Sustainable Design & Development

48-725 | Real Estate Design & Development

62-715 | Ecologics: Performative Techniques for Shaping the Built Environment

90-743 | Urban & Regional Development

90-789 | Sustainable Community Development